

CLAIMS

1. A mobile telephone arranged to automatically re-establish roaming service with a network based on an "Operator List" by modifying the Registered Public Land Mobile Network ("RPLMN") during Location Update, through the use of a pre-programmed SIM card,

2. A method of automatically establishing a roaming service for a mobile telephone, including using a pre-programmed SIM card such that a Location Update is performed in the following logical order:-

1. Registered Public Land Mobile Network ("RPLMN"), i.e. the last registered network as stored in the SIM directory EF_{LOC1} (EF6F7E)
2. Home PLMN ("HPLMN")
3. PLMNs contained in a "PLMN Selector" data field based on the "Operator List".
4. User - defined preferred PLMN
5. Other PLMNs with received signal level above a predetermined strength in random order; and
6. All other PLMNs in order of descending signal strength

3. A method according to Claim 2 in which the PLMN is stored in the "Operator List" reserved in a fixed but implementation-dependent memory location in the SIM,

e.g. EF6D30.

4. A method according to Claim 2 or 3, in which the
"PLMN Selector" data comprises PLMN's listed in the
5 "Operator List" copied on to the "PLMN Selector", the
"Operator List" taking precedence over user - defined
preferred PLMN's which are appended at the end of the
"Operator List" in the "PLMN Selector".

10 5. A method according to any one of claims 2 to 4
wherein during network selection the country code of the
RPLMN is compared with networks defined in the "Operator
List" the most preferred network with the country code
replacing the RPLMN.

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